

DERWENT-ACC-NO: 2003-459542

DERWENT-WEEK: 200344

COPYRIGHT 2008 DERWENT INFORMATION LTD

TITLE: Sewage drying apparatus comprises use of
greenhouse solar power under moving gantry with rotary hoe

PATENT-ASSIGNEE: GRIMM W[GRIML]

PRIORITY-DATA: 2003DE-2004220 (March 17, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
DE 20304230 U1	May 28, 2003	DE

INT-CL-CURRENT:

TYPE	IPC	DATE
CIPS	C02F1/00	20060101
CIPS	C02F11/12	20060101
CIPS	C10L5/46	20060101

ABSTRACTED-PUB-NO: DE 20304220 U1

BASIC-ABSTRACT:

NOVELTY - An assembly dries sewage sludge arising from waste water treatment.
The sewage is spread out on a straight bed and dried by solar action. The bed (2) is traversed by an overhead gantry (5) to which sludge processing tools (8) are fixed. The gantry tools turn the sludge at intervals and break it into granular particles.

DESCRIPTION - The sludge processing tools are depth-adjustable rotary soil hoes (8). The gantry further has an air blower hood with pipes to numerous outlets. The gantry moves along tracks (3, 4) either side of the bed (2). In a preferred embodiment the overhead gantry rotates over a circular sewage sludge bed about a central axle. The sludge drying assembly is preferably

automated
with the assistance of programmable logic controls under a glass
cover.

USE - Used for sewage sludge solar drying and granulation bed.

ADVANTAGE - The assembly reduces the cost of rendering sewage sludge
suitable
for incineration.

DESCRIPTION OF DRAWING(S) - The drawing shows a suitable sewage
drying bed
under a translucent structure.

Greenhouse (1)

Sewage bed (2)

Sidewalls/gantry rail (3, 4)

Gantry (5)

Rotary hoe (8)

Hanging frame (6)

Spindle drive (9)

Blower (10)

CHOSEN-DRAWING: Dwg.1/6

TITLE-TERMS: SEWAGE DRY APPARATUS COMPRISE GREENHOUSE SOLAR POWER
MOVE GANTRY
ROTATING HOE

DEFWENT-CLASS: D15 H09 T06 X25

CPI-CODES: D04-B10A; H09-X;

EPI-CODES: T06-D20;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: 2003-122361

Non-CPI Secondary Accession Numbers: 2003-365528

